

## Refine Search

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Terms	Documents
L10 and @pd<=20020716	4

**Database:** US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

**Search:** L12

### Search History

DATE: Monday, March 06, 2006 [Printable Copy](#) [Create Case](#)

<u>Set</u>	<u>Hit</u>	<u>Set</u>
<u>Name</u>	<u>Count</u>	<u>Name</u>
side by side		result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L12</u> L10 and @pd<=20020716	4	<u>L12</u>
<u>L11</u> L10 and @ad<=20020716	6	<u>L11</u>
<u>L10</u> L9 and l3	7	<u>L10</u>
<u>L9</u> l4 or l6 or l8	42	<u>L9</u>
DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
(5540298   5410346   5267160   4773012   6226389   4597462   5332057		
<u>L8</u> 5983161   5529138   4412594   5457632   5432509   5646613   5236335   5742917   4703822   5097917   6275773   4313514)![PN]	19	<u>L8</u>
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L7</u> ('20020156581'   '5615117'   '20060025893'   '6675096') [ABPN1,NRPN,PN,TBAN,WKU]	7	<u>L7</u>

<u>L6</u>	('6580988'  '6553293'  '6865468'  '5944137'  '6804592')[URPN]	16	<u>L6</u>
<u>L5</u>	('20020156581'  '5615117'  '20060025893'  '6675096')[URPN]	7	<u>L5</u>
<u>L4</u>	L3 not L1	7	<u>L4</u>
<u>L3</u>	(steer\$ with angle\$ with deviation\$) and (velocity or speed) and vehicle and (driv\$ with maneuver\$)	11	<u>L3</u>
<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>			
<u>L2</u>	(steer\$ with angle\$ with deviation\$) and (velocity or speed) and vehicle and (driv\$ with maneuver\$)	35	<u>L2</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i>			
<u>L1</u>	(steer\$ with angle\$ with deviation\$) and (velocity or speed) and vehicle and (driv\$ near2 maneuver\$)	4	<u>L1</u>

END OF SEARCH HISTORY

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**Search Results - Record(s) 1 through 7 of 7 returned.**

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1. Document ID: US 20060025893 A1

**Using default format because multiple data bases are involved.**

L4: Entry 1 of 7

File: PGPB

Feb 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060025893

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060025893 A1

TITLE: Method for assisting a driver when performing driving maneuvers

PUBLICATION-DATE: February 2, 2006

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Fischer; Eckart	Stuttgart		DE
Keller; Helmut	Korb		DE
Koehlein; Jens	Stuttgart		DE
Seller; Jakob	Stuttgart		DE
Spieker; Andreas	Stuttgart		DE
Ulmer; David	Schoenaich		DE
Yap; Andy	Boeblingen		DE

US-CL-CURRENT: 701/1

[Full](#) | 
 [Title](#) | 
 [Citation](#) | 
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 [Review](#) | 
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 [Date](#) | 
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 [Sequences](#) | 
 [Attachments](#) | 
 [Claims](#) | 
 [KINIC](#) | 
 [Drawn D](#)

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2. Document ID: US 20020156581 A1

L4: Entry 2 of 7

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020156581

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020156581 A1

TITLE: Vehicle controlling apparatus and method

PUBLICATION-DATE: October 24, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
Matsuura, Munenori	Tokyo-To		JP

437-438

US-CL-CURRENT: 701/301; 340/436, 340/904

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawn De
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3. Document ID: US 6675096 B2

L4: Entry 3 of 7

File: USPT

Jan 6, 2004

US-PAT-NO: 6675096

DOCUMENT-IDENTIFIER: US 6675096 B2

TITLE: Vehicle controlling apparatus and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawn De
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4. Document ID: US 6122584 A

L4: Entry 4 of 7

File: USPT

Sep 19, 2000

US-PAT-NO: 6122584

DOCUMENT-IDENTIFIER: US 6122584 A

TITLE: Brake system control

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawn De
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5. Document ID: US 5850616 A

L4: Entry 5 of 7

File: USPT

Dec 15, 1998

US-PAT-NO: 5850616

DOCUMENT-IDENTIFIER: US 5850616 A

TITLE: Traction control system for four wheel drive vehicle and the method thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawn De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

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6. Document ID: US 5615117 A

L4: Entry 6 of 7

File: USPT

Mar 25, 1997

US-PAT-NO: 5615117

DOCUMENT-IDENTIFIER: US 5615117 A

\*\* See image for Certificate of Correction \*\*

TITLE: Method for controlling a front and rear wheel steering system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Drawn De
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7. Document ID: US 5050086 A

L4: Entry 7 of 7

File: USPT

Sep 17, 1991

US-PAT-NO: 5050086

DOCUMENT-IDENTIFIER: US 5050086 A

\*\* See image for Certificate of Correction \*\*

TITLE: Aircraft lateral-directional control system

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Exchanges](#) [Filing History](#) [Claims](#) [KMD](#) [Drawn](#) [Def](#)[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Terms	Documents
L3 not L1	7

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L4: Entry 3 of 7

File: USPT

Jan 6, 2004

US-PAT-NO: 6675096

DOCUMENT-IDENTIFIER: US 6675096 B2

TITLE: Vehicle controlling apparatus and method

DATE-ISSUED: January 6, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matsuura; Munenori	Tokyo-To			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Fuji Jukogyo Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 10/126651 [PALM]

DATE FILED: April 22, 2002

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	2001-123111	April 20, 2001

INT-CL-ISSUED: [07] G06 F 17/10

US-CL-ISSUED: 701/301, 340/903, 340/435, 340/436, 342/455

US-CL-CURRENT: 701/301, 340/435, 340/436, 340/903, 342/455

FIELD-OF-CLASSIFICATION-SEARCH: 701/301, 340/903, 340/904, 340/435, 340/436, 180/271, 342/455

See application file for complete search history.

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

 [Search Selected](#)  [Search ALL](#)  [Clear](#)

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5332057</u>	July 1994	Butsuen et al.	
<u>5410346</u>	April 1995	Saneyoshi et al.	348/116
<u>5432509</u>	July 1995	Kajiwara	340/903
<u>5529138</u>	June 1996	Shaw et al.	

<input type="checkbox"/>	<u>5540298</u>	July 1996	Yoshioka et al.	
<input type="checkbox"/>	<u>5646613</u>	July 1997	Cho	340/903
<input type="checkbox"/>	<u>5742917</u>	April 1998	Matsuno	701/69
<input type="checkbox"/>	<u>5983161</u>	November 1999	Lemelson et al.	701/301
<input type="checkbox"/>	<u>6226389</u>	May 2001	ILemelson et al.	382/104
<input type="checkbox"/>	<u>6275773</u>	August 2001	Lemelson et al.	701/301

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
7-21500	January 1995	JP	
8045000	February 1996	JP	
8-2274	April 1998	JP	

## OTHER PUBLICATIONS

USSN 10/126,650, filed on Apr. 22, 2002.

ART-UNIT: 3661

PRIMARY-EXAMINER: Beaulieu; Yonel

ATTY-AGENT-FIRM: Smith, Gambrell & Russell

## ABSTRACT:

An obstacle existing ahead of a vehicle is recognized to detect information on the obstacle. Information on travelling conditions of the vehicle is detected. The steering performance of the vehicle is changed for controlling behaviors of the vehicle. It is determined whether the vehicle can avoid collision with the obstacle only by a driver's braking operation based on at least the information on the obstacle and the vehicle. The vehicle enters into an evasive driving mode in accordance with a driver's steering operation when it is determined that the vehicle cannot avoid collision with the obstacle only by the driver's braking operation. The steering performance of the vehicle is changed for controlling behaviors of the vehicle. It is determined whether the vehicle has been maneuvered for avoiding collision with the obstacle. The vehicle is released from the evasive driving mode when it is determined that the vehicle has not been maneuvered for avoiding collision with the obstacle even though the vehicle has reached the obstacle in the evasive driving mode.

16 Claims, 6 Drawing figures

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L11: Entry 3 of 6

File: USPT

Sep 19, 2000

US-PAT-NO: 6122584

DOCUMENT-IDENTIFIER: US 6122584 A

TITLE: Brake system control

DATE-ISSUED: September 19, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Lin; William Chin-Woei	Troy	MI	
Ghoneim; Youssef Ahmed	Macomb Township, Macomb County	MI	
Chen; Hsien Heng	Troy	MI	
Chin; Yuen-Kwok	Troy	MI	
Sidlosky; David Michael	Huntington Woods	MI	

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
General Motors Corporation	Detroit	MI			02

APPL-NO: 09/253369 [\[PALM\]](#)

DATE FILED: February 22, 1999

## PARENT-CASE:

TECHNICAL FIELD This application is a continuation in part of U.S. patent application, Ser. No. 08/967,091, filed Nov. 10, 1997. This invention relates to a brake system control.

INT-CL-ISSUED: [07] [G06 F 7/70](#), [G06 F 19/00](#)

US-CL-ISSUED: 701/70; 701/41, 701/71, 701/72, 303/140

US-CL-CURRENT: 701/70; 303/140, 701/41, 701/71, 701/72

FIELD-OF-CLASSIFICATION-SEARCH: 701/41, 701/70, 701/71, 701/72, 701/74, 701/78, 701/83, 303/140, 303/146, 303/147, 303/148, 303/149, 303/150

See application file for complete search history.

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

 [Search Selected](#) [Search ALL](#) [Clear](#)

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4834205</u>	May 1989	Mizuno et al.	180/141

<input type="checkbox"/>	<u>4998593</u>	March 1991	Karnopp et al.	180/140
<input type="checkbox"/>	<u>5063514</u>	November 1991	Headley et al.	364/426.02
<input type="checkbox"/>	<u>5172961</u>	December 1992	Inoue et al.	303/100
<input type="checkbox"/>	<u>5229944</u>	July 1993	Yasuno	364/426.01
<input type="checkbox"/>	<u>5275475</u>	January 1994	Hartmann et al.	303/103
<input type="checkbox"/>	<u>5311431</u>	May 1994	Cao et al.	364/424.05
<input type="checkbox"/>	<u>5313389</u>	May 1994	Yasui	364/424.05
<input type="checkbox"/>	<u>5341297</u>	August 1994	Zomotor et al.	364/426.03
<input type="checkbox"/>	<u>5366281</u>	November 1994	Littlejohn	303/3
<input type="checkbox"/>	<u>5402342</u>	March 1995	Ehret et al.	364/424.05
<input type="checkbox"/>	<u>5444621</u>	August 1995	Matsunaga et al.	364/424.05
<input type="checkbox"/>	<u>5480219</u>	January 1996	Kost et al.	303/146
<input type="checkbox"/>	<u>5524079</u>	June 1996	Ishida et al.	364/424.05
<input type="checkbox"/>	<u>5636909</u>	June 1997	Hirao et al.	303/140
<input type="checkbox"/>	<u>5641212</u>	June 1997	Sakai	303/147
<input type="checkbox"/>	<u>5676433</u>	October 1997	Inagaki et al.	303/146
<input type="checkbox"/>	<u>5700073</u>	December 1997	Hiwatashi et al.	303/146
<input type="checkbox"/>	<u>5710705</u>	January 1998	Eckert	364/426.028
<input type="checkbox"/>	<u>5720533</u>	February 1998	Pastor et al.	303/147
<input type="checkbox"/>	<u>5742917</u>	April 1998	Matsuno	701/69
<input type="checkbox"/>	<u>5742918</u>	April 1998	Ashrafi et al.	701/70
<input type="checkbox"/>	<u>5746486</u>	May 1998	Paul et al.	303/146
<input type="checkbox"/>	<u>5813732</u>	September 1998	Monzaki et al.	303/146
<input type="checkbox"/>	<u>5931887</u>	August 1999	Hac	701/72

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
0 555 860 A1	August 1993	EP	
41 23 235 C1	November 1992	DE	
41 21 954 A1	January 1993	DE	
42 00 061 A1	July 1993	DE	
42 23 385 A1	January 1994	DE	
42 29 504 A1	March 1994	DE	
43 11 077 A1	October 1994	DE	
43 14 827 A1	November 1994	DE	
40 52 62213	October 1993	JP	
40 60 24304	February 1994	JP	
40 60 87421	March 1994	JP	
40 61 15418	April 1994	JP	

40 61 27354	May 1994	JP
2 275 551	January 1993	GB
2 263 340	July 1993	GB
2 269 571	February 1994	GB
2 275 312	August 1994	GB

## OTHER PUBLICATIONS

May the Cornering Force Be with You; Popular Mechanics; Dec. 1995, pp. 74-77.  
Stable as She Goes: Don Sherman, Automotive Industries, May 1995.  
The Spin Doctors: Don Sherman, 12PS95.  
Mercedes/Bosch ESP; Automotive Industries, Apr. 1995.  
Controlling Vehicle Stability; Christopher A. Sawyer, Automotive Industries, Jan. 1995.  
Let Magic Fingers Do the Driving: Wards Auto World; May 1995.  
Technoid: Intelligent Brakes Are on the Way; Car and Driver, Aug. 1994.  
Toyota Vehicle Stability Control System; Automotive Engineering, Aug. 1995.  
Vehicle Dynamics Offers New Level of Safety; Machine Design, Sep. 1994.  
Handling Control Systems for Your Car; Popular Electronics; Feb. 1995.  
VDC, the Vehicle Dynamics Control System of Bosch: A. VanZanten, R. Erhardt and G. Pfaff; Robert Bosch GmbH; No. 950759, pp. 9-26.  
Active Stability Control; Junichi Kubokawa, Aisin Seiki Co., Ltd., Electronics & Brake Division; Abstract; Sep. 1995.  
Consideration of Lateral and Longitudinal Vehicle Stability by Function Enhanced Brake and Stability Control System; Heinz Leffler; SAE #940832; Feb. 28-Mar. 3, 1994.  
Control of Vehicle Dynamics; Automotive Engineering; pp. 87-93; May 1995.  
Improvement of Vehicle Maneuverability by Direct Yaw Moment Control; Y. Shibahata, K. Shimada and T. Tomari; Society of Automotive Engineers of Japan, Inc.; pp. 464-481.  
Spin Control for Cars; Steven Ashley; Mechanical Engineering; pp. 66-68; Jun. 1995.

ART-UNIT: 361

PRIMARY-EXAMINER: Cuchlinski, Jr.; William A.

ASSISTANT-EXAMINER: Arthur; Gertrude

ATTY-AGENT-FIRM: Simon; Anthony Luke

ABSTRACT:

A brake system control method, comprising the steps of: measuring a longitudinal speed and steering angle of the vehicle; specifying an un-damped natural frequency and a damping ratio for a linear reference model of said vehicle; determining a first gain parameter relating a desired value of steady state lateral velocity to the vehicle steering angle; computing a desired lateral velocity as a function of said first gain parameter, the measured longitudinal speed, the measured steering angle, and the specified un-damped natural frequency and damping ratio; determining a second gain parameter relating a desired value of steady state yaw rate to the vehicle steering angle; computing a desired yaw rate as a function of said second gain parameter, the measured longitudinal speed and steering angle, and the specified un-damped natural frequency and damping ratio; measuring a lateral acceleration and yaw rate of said vehicle, and forming a yaw rate command for said vehicle based at least part in a first deviation between said desired and measured

yaw rates, and a second deviation between said measured lateral acceleration and a desired lateral acceleration based on said desired lateral velocity; and differentially braking wheels of said vehicle to impart a yaw moment corresponding to said yaw rate command.

5 Claims, 13 Drawing figures

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L4: Entry 6 of 7

File: USPT

Mar 25, 1997

US-PAT-NO: 5615117

DOCUMENT-IDENTIFIER: US 5615117 A

\*\* See image for Certificate of Correction \*\*

TITLE: Method for controlling a front and rear wheel steering system

DATE-ISSUED: March 25, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Serizawa; Mitsuya	Saitama-ken			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Honda Giken Kogyo Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 08/328844 [PALM]

DATE FILED: October 25, 1994

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	5-338860	December 1, 1993

INT-CL-ISSUED: [06] B62 D 6/04

US-CL-ISSUED: 364/424.052; 180/413, 180/410, 180/446

US-CL-CURRENT: 701/42: 180/410, 180/413, 180/446 447  
41 443

FIELD-OF-CLASSIFICATION-SEARCH: 364/424.05, 180/79.1, 180/140, 280/91

See application file for complete search history.

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4313514</u>	February 1982	Furukawa et al.	180/143
<u>4412594</u>	November 1983	Furukawa et al.	180/140
<u>4597462</u>	July 1986	Sano et al.	180/140
<u>4703822</u>	November 1987	Kawamoto et al.	180/140

<input type="checkbox"/>	<u>4773012</u>	September 1988	Ito et al.	364/424.05
<input type="checkbox"/>	<u>5097917</u>	March 1992	Serizawa et al.	180/79.1
<input type="checkbox"/>	<u>5236335</u>	August 1993	Takeuchi et al.	180/79.1
<input type="checkbox"/>	<u>5267160</u>	November 1993	Ito et al.	364/424.05
<input type="checkbox"/>	<u>5457632</u>	October 1995	Tagawa et al.	364/424.05

ART-UNIT: 234

PRIMARY-EXAMINER: Park; Collin W.

ATTY-AGENT-FIRM: Weiner, Carrier & Burt, P.C. Carrier; Joseph P. Weiner; Irving M.

ABSTRACT:

In a method for controlling a front and rear wheel steering system in which front wheels of a vehicle are steered according to a combination of a steering wheel input and an output from a compensatory front wheel steering actuator, and rear wheels of the vehicle are steered by a rear wheel steering actuator. The front wheel steering angle is augmented according to the deviation of the actual yaw rate from a target yaw rate computed from the travelling speed of the vehicle and the steering input from the steering wheel to compensate for the delay in the yaw rate response so that the rear end of the vehicle would not be swung sideways during a turning maneuver, and the vehicle operator would not be subjected to any unfamiliar feeling. Furthermore, when the vehicle is subjected to a side wind or cross wind, because the orientation of the vehicle is corrected from the downwind direction to the upwind direction by steering the front wheel, it is possible to restore the orientation of the vehicle to an appropriate direction without the vehicle being wholly thrown laterally by the side wind. The rear wheels are steered so as to reduce the side slip angle to zero as an additional feature of the present invention, whereby the orientation of the vehicle during a turning maneuver may be aligned with the actual trajectory of the vehicle, and the driveability of the vehicle can be improved.

10 Claims, 11 Drawing figures

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Set	Items	Description
S1	214	STEER? AND DEVIAT? AND ANGLE?
S2	59	S1 AND SPEED?
S3	2	S2 AND TRAJECTOR?
S4	2	RD (unique items)
S5	0	S2 AND PARK?
?		

T S4/3, KWIC/1-2

4/3, KWIC/1 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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07820679 E.I. No: EIP06049656499

Title: Monte Carlo analysis for a booster flyback guidance system  
Author: Tetlow, Matthew R.; Evans, Michael E.; Schneider, Gerald M.; Schottle, U.M.

Corporate Source: School of Mechanical Engineering University of Adelaide, Adelaide, QLD, Australia

Conference Title: 43rd AIAA Aerospace Sciences Meeting and Exhibit

Conference Location: Reno, NV, United States Conference Date: 20050110-20050113

E.I. Conference No.: 66366

Source: 43rd AIAA Aerospace Sciences Meeting and Exhibit - Meeting Papers 43rd AIAA Aerospace Sciences Meeting and Exhibit - Meeting Papers 2005.

Publication Year: 2005

Language: English

...Abstract: winged launch booster. The guidance system employs a numerical Newton-Raphson restoration technique to update steering parameters, coupled with heuristic logic, to improve robustness. The guidance system uses a prediction of...

...predictive guidance system at given guidance intervals. The predictive guidance system then integrates along the trajectory, using the current parameterized steering model, to determine the expected final position of the virtual booster. It compares the achieved...

...the target error. A parameterized non-linear restoration technique then determines new values for the steering parameters, to guide the virtual booster from the current state to the desired state. The...

...flight regimes, with randomly varied environmental and state parameters. The randomly varied parameters include: wind speed and direction, staging flight path angle, velocity and altitude and modelled state estimation errors. Different gravitation and atmosphere models are also...

...Monte Carlo analysis also allows for a statistical analysis to determine the mean and standard deviations for the target conditions. 10 Refs.

4/3, KWIC/2 (Item 1 from file: 94)  
DIALOG(R)File 94:JICST-Eplus  
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05862097 JICST ACCESSION NUMBER: 04A0658587 FILE SEGMENT: JICST-E

Realization of Guiding a Tractor to Implement Positions  
CHUN J (1); TORISU RYO (2); TAKEDA JUN'ICHI (2); IMAE JO (3)  
(1) Iwate Univ., United Graduate School of Agricultural Sciences, JPN; (2)  
Iwate Univ., Faculty of Agriculture, JPN; (3) Osaka Prefecture Univ.,  
Graduate School Div. Engineering, JPN

Nogyo Kikai Gakkaishi (Journal of the Japanese Society of Agricultural Machinery), 2004, VOL.66, NO.5, PAGE.83-89, FIG.10, TBL.1, REF.8

JOURNAL NUMBER: G0975AAP ISSN NO: 0285-2543 CODEN: NKIGA

UNIVERSAL DECIMAL CLASSIFICATION: 631.3 007.52:681.51

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

...ABSTRACT: position. To increase the guidance precision, a two-step control method is proposed. The guidance trajectory was computed to meet the limiting condition for maximum steering angle . The effectiveness of the guidance controller was confirmed with the computer simulation and it showed...

...the guidance system could guide the agricultural robot successfully on the asphalt road at a speed of 0.5 m/s. At the implement position, the lateral deviation and heading angle error of the tractor were 0.03 m and -1.09.DEG. respectively. (author abst.)

?

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1. Document ID: JP 2003141694 A

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L2: Entry 1 of 7

File: JPAB

May 16, 2003

PUB-NO: JP02003141694A

DOCUMENT-IDENTIFIER: JP 2003141694 A

TITLE: SAFETY DRIVING SUPPORTING DEVICE FOR VEHICLE

PUBN-DATE: May 16, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
FUKUHARA, MASAAKI	
TAKEZAKI, JIRO	

INT-CL (IPC): G08 G 1/16; B60 R 21/00; B62 D 6/00; G01 C 21/00

2. Document ID: JP 2001001928 A

L2: Entry 2 of 7

File: JPAB

Jan 9, 2001

PUB-NO: JP02001001928A

DOCUMENT-IDENTIFIER: JP 2001001928 A

TITLE: AUTOMATIC STEERING DEVICE FOR VEHICLE

3. Document ID: JP 11321687 A

L2: Entry 3 of 7

File: JPAB

Nov 24, 1999

PUB-NO: JP411321687A

DOCUMENT-IDENTIFIER: JP 11321687 A

TITLE: AUTOMATIC STEERING DEVICE OF VEHICLE

http://westbrs:9000/bin/gate.exe?f=TOC&state=k95mph.3&ref=2&dbname=EPAB,JPAB,DW... 3/6/06

4. Document ID: JP 01293274 A

L2: Entry 4 of 7

File: JPAB

Nov 27, 1989

PUB-NO: JP401293274A

DOCUMENT-IDENTIFIER: JP 01293274 A

TITLE: MOTOR CONTROL DEVICE FOR ELECTRIC POWER STEERING DEVICE

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L2: Entry 5 of 7

File: JPAB

Nov 27, 1989

PUB-NO: JP401293273A

DOCUMENT-IDENTIFIER: JP 01293273 A

TITLE: MOTOR CONTROL DEVICE FOR ELECTRIC POWER STEERING DEVICE

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L2: Entry 6 of 7

File: DWPI

Nov 10, 2005

DERWENT-ACC-NO: 2005-790244

DERWENT-WEEK: 200581

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TITLE: Automatic steering parking assistance apparatus for vehicle has monitoring apparatus which halts operation of automatic steering controller when deviation of steering angle and target steering angle are above predetermined value

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L2: Entry 7 of 7

File: DWPI

Dec 2, 2004

DERWENT-ACC-NO: 2004-818291

DERWENT-WEEK: 200481

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TITLE: Vehicle parking assistance apparatus determines control delay at time of steering based on deviation of target and real steering angles, target and real steering speeds and target route and actual vehicle position

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